

## Afforestation in India

Dimensions of evaluation

*Authors: H S Gupta, V K Sinha, R K Singh, and D K Sharma*

With growing ecological, biological, and environmental imbalances, due importance and attention should be given to various forest resources and their management. *Afforestation in India: dimensions of evaluation* examines the monitoring and evaluation aspects of an afforestation project that incorporates various dimensions and approaches. This book is a useful guide to those interested in the monitoring and evaluation of afforestation projects.

### Table of contents

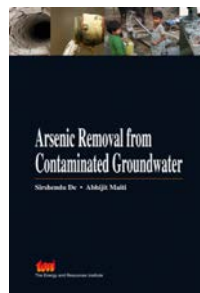
- Monitoring and Evaluation Aspects of Forestry Projects: A Review
- Strengthening Evaluation and Monitoring Mechanism under National Afforestation Programme
- Critical Assessment of Methodology for Monitoring and Evaluation of NAP Projects
- Critical Findings of NAP Implementation: An Analysis of Monitoring and Evaluation Reports
- Monitoring and Evaluation Issues in the Watershed Development Component of Natural Resource Management
- Developing Effective Sampling Techniques for Monitoring and Evaluation of FDA Projects under NAP

2013 • 164 pages • Hardback • 160mm x 240mm • 9788179934630 • ₹ 445.00

## Arsenic Removal from Contaminated Groundwater

*Authors: Sirshendu De and Abhijit Maiti*

Contamination of groundwater with arsenic is being considered a pervasive and critical issue in recent years. Large areas in India, Bangladesh, South East Asia, and other parts of the world are suffering from this problem. *Arsenic Removal from Contaminated Groundwater* presents a comprehensive discussion on various important issues, including state-of-the-art arsenic removal technologies, preparation and performance analysis of laterite, and scale-up issues and design of a household filter. It also expounds the potentiality of raw laterite and treated laterite as low-cost arsenic adsorbents. The efficiency of adsorbent capacity is evaluated using real arsenic contaminated groundwater collected from an affected area in West Bengal, India. The topic is an emerging area and most of the work presented has the potential of field application.

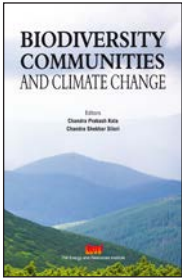


### Table of contents

- Arsenic in groundwater and its health effects
- Hydrogeochemistry of arsenic-contaminated water
- Arsenic removal processes and advantages of the adsorption process
- Application of raw laterite as an arsenic adsorbent
- Application of acid-treated laterite as an arsenic adsorbent
- Application of acid-base treated laterite as an arsenic adsorbent

2012 • 304 pages • Hardback • 160mm x 240mm • 9788179933831 • ₹ 995.00

Buy online at <http://bookstore.teri.res.in>



## Biodiversity Communities and Climate Change

*Editors: Chandra Prakash Kala and Chandra Shekhar Silori*

Biodiversity conservation and sustainable use of natural resources has remained one of the key challenges for development agencies and concerned stakeholders for decades together. The huge threat of climate change has only added to this complexity. In this context, the present book *Biodiversity Communities, and Climate Change* is designed to help in guiding the various principles of biodiversity conservation, effects of climate change and role of communities at various levels and landscapes. A total of 19 chapters are covered in this book and they encompass a wide range of topics including tools of biodiversity assessment ranging from conventional ecological and social survey methods to the use of latest technology such as Geographical Information System (GIS) and remote sensing.

### Table of contents

- Section I: Assessment of biodiversity
- Section II: Community, livelihood, and management of biodiversity
- Section III: Climate change and biodiversity conservation

2013 • 354 pages • Hardback • 160mm x 240mm • 9788179934425 • ₹ 895.00



## Building the Future We Want

*Editors: Rajendra K Pachauri, Anne Paugam, Teresa Ribera, and Laurence Tubiana*

*A Planet for Life* provides first hand analysis and narrative of ongoing transformation and sustainable development challenges in key countries. It tours five continents to shed light on what countries and regions are actually doing to achieve sustainable development, tackling their own local – and global – problems, and exploring different pathways towards sustainability. It explores implementation issues and financing for development options more specifically, with an overview of key propositions for making sustainable development financing a lever to transform economies and societies.



### Table of contents

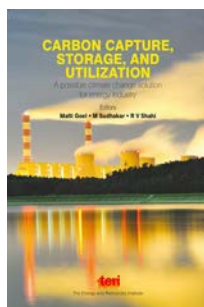
#### PART 1. TOWARDS A COMPREHENSIVE ENVIRONMENTAL AND SOCIAL CONTRACT

- 2015: Negotiating a common and sustainable future • New configurations of actors for sustainable development • Reinventing modes of participation in UN negotiations

**PART 2. HOW TERRITORIES ARE ADDRESSING THE ISSUE OF SUSTAINABLE DEVELOPMENT** • The pursuit of sustainable development in India • Challenges of a turning point in development: Arab countries after the Spring • The future of the Brazilian model of 'sustainable agricultural growth' • California plans for its 2050 climate future • Japan: from frugal production to an anthropogenetic regime

**PART 3. REINVENTING DEVELOPMENT AND ITS FINANCING** • Financing the post-2015 sustainable development agenda • The expanding search for a carbon price • Reinventing civilization

2015 • 254 pages • Paperback • 190mm x 230mm • 9788179935750 • ₹ 655.00



## Carbon Capture, Storage, and Utilization

Editors: Malti Goel, M Sudhakar, and R V Shahi

**New**

This book deals at length with the various aspects of carbon dioxide capture, its utilization and takes a closer look at the earth processes in carbon dioxide storage. It discusses potential of carbon capture, storage, and utilization as innovative energy technology towards a sustainable energy future. Various techniques of carbon dioxide recovery from power plants by physical, chemical, and biological means as well as challenges and prospects in biomimetic carbon sequestration are described. Carbon fixation potential in coal mines and in saline aquifers is also discussed.

### Table of contents

SECTION I: POLICY • Carbon, capture and storage: can or should we be so indifferent? • Policy and regulatory interventions in abatement of CO<sub>2</sub> footprints in India • Carbon capture, storage, and utilization—an appraisal of current situation in coal-based economies • TERI's scoping study on carbon capture and storage in the Indian context • Capturing CO<sub>2</sub> by physical and chemical means

SECTION II: CARBON CAPTURE AND STORAGE • CO<sub>2</sub> recovery from power plants by adsorption: R & D and technology • Geological sequestration of CO<sub>2</sub> in saline aquifers—an indian perspective • Options for CO<sub>2</sub> storage and its role in reducing CO<sub>2</sub> emissions • CO<sub>2</sub> sequestration potential of indian coalfields • Carbon sequestration potential of the forests of north-eastern India

SECTION III: CO<sub>2</sub> FIXATION AND UTILIZATION • Prospects in biomimetic carbon sequestration • Bio-sequestration of CO<sub>2</sub>—potential and challenges • Cyanobacteria in carbon dioxide utilization and as biosurfactants and flocculants • Production of multi-purpose fuels through carbon capture and sequestration • CO<sub>2</sub> storage and enhanced oil recovery • Real-term implications of carbon sequestration in coal seams • CO<sub>2</sub> storage, utilization options, and ocean applications

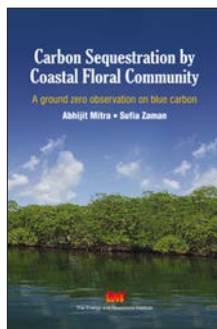
2015 • 290 pages • Hardback • 160mm x 240mm • 9788179935682 • ₹ 950.00

## Carbon Sequestration by Coastal Floral Community

A ground zero observation on blue carbon

Authors: Abhijit Mitra and Sufia Zaman

**New**

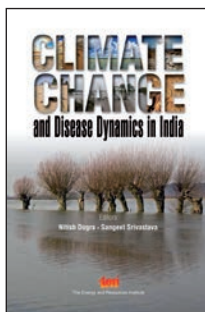


*Carbon Sequestration by Coastal Floral Community* focuses on some of the important issues of carbon sequestration. Apart from standardizing ecological approach in estimating blue carbon in various vegetation compartments, this book also presents a few important case studies, which serve as the basics of hands-on-scientific training in estimating the magnitude of stored carbon in mangroves, salt marsh, seagrass, seaweeds and phytoplankton. The influence of salinity, nutrients and several relevant hydrological parameters on the rate of blue carbon sequestration has also been critically analysed.

### Table of contents

- The blue soup of the planet earth • Carbon dioxide reservoir in the planet earth • Mangrove community
- Seagrass and saltmarsh grass community • Seaweeds of the coastal zone • Phytoplankton community
- Molluscan community: a unique carbon reservoir

2014 • 428 pages • Hardback • 160mm x 240mm • 9788179935514 • ₹ 995.00



## Climate Change and Disease Dynamics in India

*Editors: Nitish Dogra and Sangeet Srivastava*

Planetary health is today inextricably linked to population health. Climate change, an integral part of planetary health, is foremost among global environmental changes affecting human health. This mammoth challenge is characterized by the potential risk to cripple health systems worldwide and profoundly alter disease dynamics, thereby threatening the well-knit fabric as well as growth of society. Unfortunately, much of the evidence for these linkages has come largely from the developed world. By focusing on India, one of the significant developing countries of the global economy, *Climate Change and Disease Dynamics in India* aims to fill a crucial gap in the fields of climate science and public health. The book is divided into three main aspects: fundamentals, impacts, and applied. By examining these aspects and more, the book seeks to explore the multitude of issues related to climate change and disease dynamics; right from the basics to the bedside to the boardroom. Each chapter reviews relevant global and India-specific evidence, and also the implication of that knowledge in programmatic terms and policy implications.

### Table of contents

• **Fundamentals section** • Global environmental change • Climate epidemiology • Climate change attributable burden of disease • Modelling for future health impacts • Indian climatology in the context of human health • Evidence: climate extremes outcomes section • Thermal stress • Climate disasters • Sea level rise • **Evidence section: climate sensitive diseases section** • Malnutrition • Vector-borne diseases • Diarrhoeal diseases • Respiratory diseases • Mental health • Emerging and re-emerging diseases • **Applied section** • Geographic information system • Resources and infrastructure • Lifestyle • Vulnerability and adaptation • Economics of scaling up • Health communication

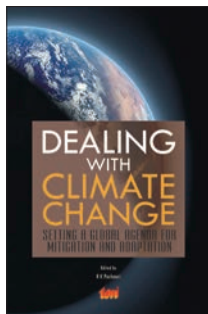
2012 • 456 pages • Hardback • 160mm x 240mm • 9788179934128 • ₹ 995.00

## Dealing with Climate Change

Setting a global agenda for mitigation and adaptation

*Editor: R K Pachauri*

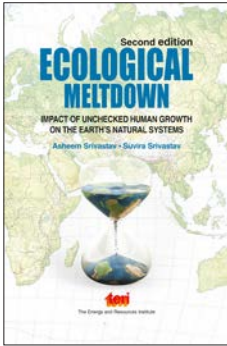
Climate change is the most important existential threat that humanity faces at the moment. There is an urgent need for a framework for international cooperation, research and development, technology, finance, market mechanisms, as well as consensus on the role of business in addressing the issue. This book presents authoritative contributions from international experts, laying out the issues, the options, and the prospects of mitigation and adaptation.



### Table of contents

• The scientific assessment of climate change: new findings • Carbon Budget Proposal • Challenges in climate change adaptation • Research and development priorities for addressing climate change (mitigation and adaptation) • Climate change: a problem or an opportunity • The last decade—convergence of environmental and financial markets: a practitioner's view • The global climate change regime: a time for consolidation or fundamental reform • Climate change debate: view from India • Emission reduction targets: a Pandora's Box in climate negotiations

Reprint 2015 • 256 pages • Hardback • 155mm x 230mm • 9788179932773 • ₹ 695.00



## Ecological Meltdown

Impact of unchecked human growth on the earth's natural systems  
Second Edition

Authors: *Asheem Srivastav and Suvira Srivastav*

**New**

In the second edition of *Ecological Meltdown: impact of unchecked human growth on the earth's natural systems*, the authors discuss the destruction of biodiversity and ecosystems due to human actions. Apart from warning about the impending ecological meltdown and analysing the causes behind it, the book deals with the solutions that need to be urgently adopted by the global civil societies and national governments.

The book is an invaluable resource for policymakers and institutions in the forestry, wildlife, energy, rural development, and environment sectors. It will also prove beneficial for conservationists, scientists, researchers, and students of environmental science. A new chapter on "Time for Energy Transition" has been added in this edition.

### Table of contents

- Beyond limits • The fast breeding machines • One earth, many worlds • Time for energy transition
- The (un) protected areas • Victims of human hunger • Treating deep wounds – is first aid enough? • The relevance of multilateral environmental agreements • Revisiting sustainable development

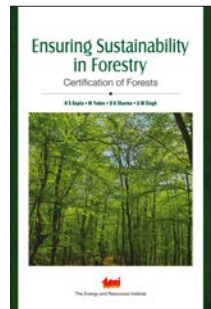
2015 • 300 pages • Hardback • 150mm x 230mm • 9788179935729 • ₹ 550.00

## Ensuring Sustainability in Indian Forestry

Certification of forests

Authors: *H S Gupta, M Yadav, D K Sharma, and A M Singh*

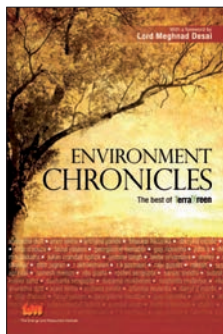
This book details the concepts and approaches required to meet desired international standards of forest certification. It brings together important issues related to forest certification, which need to be applied and utilized in the context of forests in India in the present scenario. It also focuses on economic factors, greening of certification processes, and the interface between technical and business knowledge.



### Table of contents

- Sustainability and forestry • Concept and evolution • Various schemes • Potential and status of certified forest • Products: global and Indian scenarios • Process of certification of forests • Expectations of different stakeholders • Economics of forest certification • Addressing sustainability through certification of forests
- Certification of forests and environmental conservation • Different certification systems: convergence issues
- Sustainable forest management, forest certification and climate change regulations: confluence of concepts
- Developing certification of forests in India: rationale and options • Challenges of certification • Future of forest certification

2013 • 289 pages • Hardback • 160mm x 240mm • 9788179933251 • ₹ 995.00



## Environment Chronicles

The best of **TerraGreen**

A TERI Publication

This unique collection of stories from across India, South Asia, and the world brings to you personal accounts of struggle, survival, trust, and hope for a better tomorrow. From the pollution-choked rivers in our cities, contamination in our food, to the carbon footprint of the US elections; from the promise of smokeless chulhas to the scenario in which we run out of oil; from the slow death of our historical heritage to the plight of the magnificent big cats, this thorough, complete, and meaningful anthology takes a broad sweep over the past few years to highlight and present the best and the biggest stories on the environment.

### Key features

- Unique collection of articles on development and 'under development' from India and abroad
- Contributions by well-known journalists and environmentalists
- Inspirational stories of struggle, survival, and hope
- Immensely readable and informative

### Table of contents (selected)

- Is sustainable development an oxymoron? (Dr R K Pachauri) • Is development passé? (Darryl D'Monte)
- Mahatma and the environment (John S Moolakkattu) • The Ganga's last stretch (Julian Crandall Hollick)
- If oil runs out... (Bhaskar Hazarika) • Can global poverty be eradicated? (Leena Srivastava) • Fear comes full circle in Kashmir (Faisal Yaseen) • For whom the bells toll (Anuradha Dutt) • Tainted tales (Ramesh Menon) **and much more...**

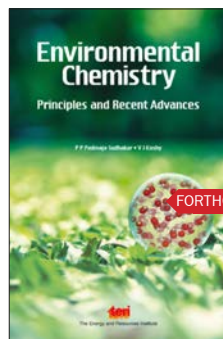
Reprint 2015 • 264 pages • Paperback • 150mm x 230mm • 9788179933589 • ₹ 295.00

## Environmental Chemistry

Principles and Recent Advances

Authors: P P Padmaja Sudhakar and V J Koshy

*Environmental Chemistry: principles and recent advances* provides a holistic view of the chemical processes in all segments of the atmosphere. It discusses the various pollutants present in the atmosphere, including persistent and bioaccumulative chemicals, pesticides, nanoparticles, and chiral pollutants. Advances in treatment techniques, and analysis and monitoring of pollutants are other topics covered in detail. A chapter has been dedicated for a comprehensive discussion on green chemistry.

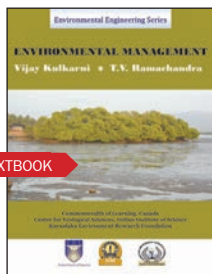


### Table of contents

- Concept and scope of environmental chemistry • Fundamentals of chemical thermodynamics • Atmospheric chemistry • Atmospheric pollution • Hydrospheric chemistry • Water pollution • Lithosphere chemistry • Soil and soil pollution • Solid and hazardous waste management • Recent advances in treatment technologies • Green chemistry • Environmental toxicology • Radiation pollution • Global environmental disasters • Analytical techniques in environmental analysis

2015 • 250 pages • Hardback • 160mm x 240mm • 9788179935224 • ₹ 495.00





TEXTBOOK

## Environmental Management

Authors: *Vijay Kulkarni and T.V. Ramachandra*

Environmental management has become one of the most used terms in recent times. But, what exactly does the term mean and entail? Environmental management helps to investigate and manage the environment within the context of human influences, incorporating an examination of economics, culture, political structure, and social equity, as well as natural processes and systems. This book discusses in detail the various issues relating to environmental management, including the fundamentals; the various environmental policies, legislations,

and international treaties; the concept of environmental impact assessment; environmental auditing; life cycle assessment; various environmental management system standards; issues and techniques, and environmental design and economics.

### Table of contents

- Principles of environmental management • Policy and legal aspects of environmental management
- Environmental impact assessment • EIA documentation and processes • Environmental auditing
- Life cycle assessment • Environmental management system standards • Environmental management techniques • Environmental design • Environmental economics

Reprint 2014 • 396 pages • Hardback • 185mm × 240mm • 9788179931844 • ₹ 550.00

## Environmental Pollution and Health

Author: *V K Ahluwalia*

New

According to the World Health Organization, health is defined as “a state of complete physical, mental, and social well-being and not merely the absence of disease or infirmity.” In other words, health is the ability to function effectively within a given environment. Good health also involves continuous adaptation to changes in the physical, biological, and social environment.

*Environmental Pollution and Health* expounds the three main types of environmental pollution—air, water, and land—and their effects on human health. It also focuses on photochemical air pollution, marine pollution, thermal pollution, noise pollution, and radioactive pollution and their effects on human health.



### Table of contents

- Introduction • Air pollution and health • Water pollution and health • Land pollution and health
- Photochemical air pollution and health • Marine pollution and its effects • Thermal pollution and its effects
- Noise pollution and health • Radioactive pollution and health • Health hazards due to factors other than pollution

2015 • 238 pages • Hardback • 160mm x 240mm • 9788179934616 • ₹ 225.00

### Other Books on Environmental Science

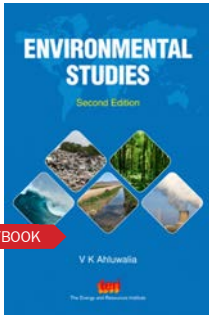
Benchmarking Performance a Manual on Performance Measurement in ULB by TERI (ISBN: 9788179930397) Price: Rs.350

Capabilities and Governance of Nanotechnology in the Developing World: Insights from India by Shilpanjali Deshpande Sarma (ISBN: 9788179935675) Price: Rs.500

Citizens at Work [Vol.3] by VVN Kishore (ISBN: 9788179931165) Price: Rs.300

CO<sub>2</sub> Mitigation and the Indian Transport Sector by TERI (ISBN: 9788185419183) Price: Rs.75

Communicating in Style by Yateendra Joshi (ISBN: 9788179930168) Price: Rs.300


**TEXTBOOK**

## Environmental Studies

Basic concepts  
**Second Edition**

Author: *V K Ahluwalia*

Based on the latest UGC syllabus, the second edition of Environmental Studies has been thoroughly revised and updated. It discusses the various types of natural resources and the problems faced in conserving them and the effective management of resources for sustainable lifestyles.

The book focuses on the concepts, structure and function of an ecosystem, threats to biodiversity and conservation of biodiversity, causes, effects and control measures of pollution, hazardous effects of human population on environment, and management of environment quality and the several types of pollution. A new chapter "Fieldwork" has been added in this edition.

### Table of contents

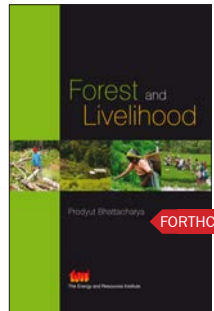
- Multidisciplinary Nature of Environmental Studies • Natural Resources • Ecosystems • Biodiversity
- Environmental Pollution • Social Issues and the Environment • Population and the Environment
- Management of the Environment • Fieldwork

2015 • 260 pages • Paperback • 180mm × 240mm • 9788179935712 • ₹ 325.00

## Forest and Livelihood

Author: *Prodyut Bhattacharya*

*Forest and Livelihood* brings out key issues relevant to forest and livelihood, with a special focus on non-timber forest produce. It also focuses on emerging research issues arising out of various policies and their impact on the forest-dependent poor. This comprehensive volume is a useful reference for researchers, policy-makers, and development practitioners working in the area of forest and livelihood.


**FORTHCOMING**

### Table of contents

- Introduction • Temporal changes in policy and management of forests • People and forests • Forest-based livelihood • Human-animal conflicts in and around protected areas
- Drivers of change in institutional arrangements in forestry • Key learnings and research issues related to forest and livelihood

2015 • 250 pages • Hardback • 160mm x 240mm • 9788179935316 • ₹ 795.00

### Other Books on Environmental Science

Community-based Biodiversity Conservation in the Himalayas by Yogesh Gokhale (ISBN: 9788179934036) Price: Rs.350

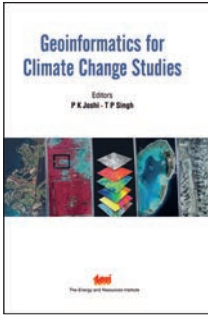
Costing Adaptation: preparing for climate change in India by Anil Markandya (ISBN: 9788179933886) Price: Rs.995

Environment best practices: volume 6 by R K Narang (ISBN: 9788179932339) Price: Rs.995

Environmental Concerns and Sustainable Development by S Somayaji (ISBN: 9788179932247) Price: Rs.450

Ganga by Julian Crandall Hollick (ISBN: 9788184000030) Price: Rs.450





## Geoinformatics for Climate Change Studies

*Editors: P K Joshi and TP Singh*

Climate change is increasingly being considered a critical topic in research and policy-making. Evidence related to climate change deals with spatial and non-spatial data, which can be utilized for policy formulation. Geoinformatics, which includes remote sensing, GIS, GPS, and ICT, provides the most relevant technology to monitor climate change-related variables at different dimensions and scales.

*Geoinformatics for Climate Change Studies* discusses the art of using this technology for investigating, monitoring, documenting, and understanding the impacts of climate change. This book provides information on the concepts and uses of geoinformatics, and focuses on filling the gap in the available literature on the subject by bringing together concepts, theories, and experiences of experts in this field.

### Table of contents

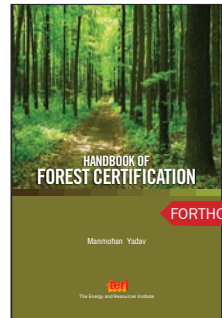
• A GIS-based framework for modelling and global design of earth systems • Geoinformatics for climate change research • Reactions of mountain glaciers to climate change—a remote sensing approach • Geoinformatics and the mapping of lands vulnerable to sea level rise • Geospatial tools to assess forest ecosystems under climate change trajectories • Geoinformatics for comprehensive impact assessment and analysis of climate change for integrated water resources management • Climate–Population–Energy: scenarios for 2050 • Geoprocessing for soft mapping of sparse and inaccurate evapotranspiration data • Impact of climate variability on human health • Geo-information-based approach for monitoring climate-induced land degradation in Nigeria

Reprint 2013 • 490 pages • Hardback • 160mm x 240mm • 9788179934098 • ₹ 995.00

## Handbook of Forest Certification

*Author: Manmohan Yadav*

This book details the concepts and approaches required to meet the desired international standards of forest certification. It brings together important aspects of forest certification as practised globally and which need to be applied in the emerging context of forests in India. It also focuses on changing global perspective on forest resources, importance and need for sustainable management of forests, increasing consumer awareness, and preferences for certified forest products. Drawing on a wealth of information provided by valuable studies across the globe, this volume discusses sustainable forest management and forest certification and their impact on conservation and development of biodiversity. It is a comprehensive and detailed guide for forest managers, forest owners, practitioners, forest-based industries, academicians, researchers and consultants in the forestry sector in the country.

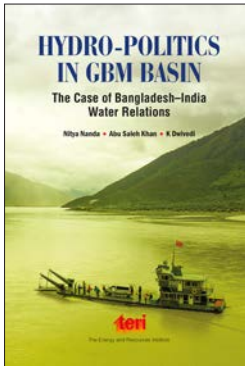


FORTHCOMING

### Table of contents

• Status of forest resources • Sustainability and forestry • Management of forests in India: A historical perspective • Essentials of forest certification: concept, evolution, elements, and process • Forest certification schemes • Extent of forest certification and certified timber market • Certification of non-timber forest products • Framework for forest certification in India • Stakeholder expectations and economics of forest certification • Sustainability and forest certification • Challenge and potential of forest certification

2015 • 300 pages • Hardback • 160mm x 240mm • 9788179933008 • ₹ 995.00



## Hydro-politics in GBM Basin

The Case of Bangladesh–India Water Relations

New

Authors: *Nitya Nanda, Abu Saleh Khan, and K Dwivedi*

Given that South Asia is fast becoming a water-stressed region and that population and economic growth make the situation more challenging, an integrated management of water resources becomes even more crucial. *Hydro-politics in GBM Basin: the case of Bangladesh–India water relations* focuses on the water management issues between Bangladesh and India.

The book examines the issues carefully and attempts to suggest a path to deal with the challenges based on hard data and wide consultation with a large number of stakeholders in India and Bangladesh. Apart from covering the economic, ecological, and political (domestic and international) issues, it deals with treaty implications from international water-related case studies.

### Table of contents

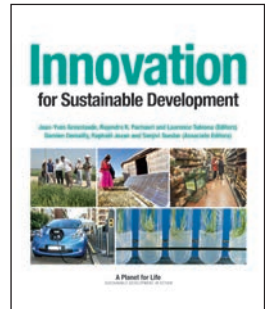
• Issues in water resources management in GBM basin • Understanding multilateral and bilateral water cooperation: frameworks, approaches, and instruments • Water resources management in India: with Special reference to GBM basin • Water resources management—Bangladesh perspective • Water resources management: towards international cooperation • Annexure 1 • Annexure 2 • Annexure 3

2015 • 180 pages • Hardback • 150mm x 230mm • 9788179935705 • ₹ 595.00

## Innovation for Sustainable Development

New

Authors: *Jean-Yves Grosclaude, Rajendra K. Pachauri and, Laurence Tubiana*



Innovations are occurring worldwide and alternative solutions to the existing problems are emerging in all sectors: electric cars, organic farming, renewable energy and e-learning are good examples. These alternatives can be ascribed with qualities such as decentralized frugal, flexible, smart and democratic, virtues that are lacking in conventional models. They are attributed with the potential to meet the overall global challenges such as climate change and the growing inequalities between and within countries. What is the real potential of innovation?

*A Planet for Life 2014* aims to answer these questions and explore innovation in all its aspects, through a series of texts written by international experts. The objective of this book is to analyse experiences from across the world and the role of innovation in a variety of areas of development such as urbanization, agriculture and food, the mobility of people and freight, education and the provision of water and energy to all.

### Table of contents (selected)

• Disentangling the debate on open access for meeting global challenges in life science • The public policy of sustainable development: innovation for a real utopia • Nothing new under the sun: institutional innovation for the governance of sustainability • Water governance in megacities: innovation facing the techno-political hurdle • Frugal innovation: a pioneering strategy from the South • Do national systems of innovation benefit from foreign investment? Lessons from the BRICS • How does China's take on capitalism influence its capacity for innovation? • Could innovation dwindle? Insights from the photovoltaic trade conflict.

2014 • 304 pages • Paperback • 190mm x 230mm • 9788179935569 • ₹ 655.00



TEXTBOOK

## Introduction to Environmental Sciences

Editors: R S Khoiyangbam and Navindu Gupta

New

Environmental sciences is a vast and multidisciplinary science that involves the study of natural resources of land, water, and air. *Introduction to Environmental Sciences* comprehensively covers numerous aspects of this vast subject. While some chapters focus on the causes of environmental problems, others discuss methods and ways of mitigating these causes.

### Table of contents

- Definition, scope, and importance of environmental sciences • Environmental chemistry • Forest resources • Air pollution • Water pollution • Soil pollution • Noise pollution • Bioremediation • Restoration ecology • Environmental biotechnology • Sustainable development • Demography • Principles of analytic methods • Remote sensing and GIS • Environmental management • Disaster management • Environmental assessment and planning • Environmental legislation • Environmental biostatistics • Energy resources: fossil fuels • Energy resources: alternative energy • Wildlife resources • Global environmental issues • Environmental education and awareness • Analysis of water and soil pollution • Analysis of noise pollution

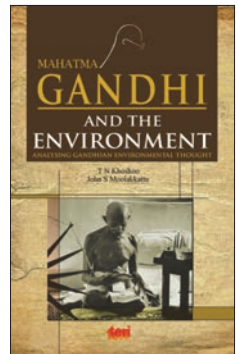
2015 • 623 pages • Hardback • 160mm × 240mm • 9788179934555 • ₹ 595.00

## Mahatma Gandhi and the Environment

Analysing Gandhian environmental thought

Authors: T N Khoshoo and John S Moolakkattu

The book presents a selection of Mahatma Gandhi's views on the environment and elaborates their relevance today. It is particularly relevant now when the threat of climate change looms large and natural resources are fast depleting. The book is of interest to all concerned with protecting the earth's environment and its natural resources. The book presents Mahatma Gandhi's views on sustainable use of resources and minimal damage to the environment for the sake of future generations. The need for a significant synergy between rural development and industrial development has also been highlighted.



### Table of contents

- Nature and humankind • Yogic practice and the environment • The role of woman, man, and society • Unity in diversity • Western industrialism • The weakest link: village and villager • Sustainable development • Hind Swaraj: the Gandhian manifesto of ecological living • Gandhi and science • Situating satyagraha in mainstream conflict resolution theory • Gandhi and the contemporary discourse on decentralization • Gandhi and the Dalit question • Towards a new order: the new thinking • Selected quotes of Mahatma Gandhi on environment and development

Reprint 2015 • 164 pages • Hardback • 140mm x 215mm • 9788179932230 • ₹ 250.00



## OCEANS

The new frontier

*Editors: Pierre Jacquet, Rajendra K Pachauri, and Laurence Tubiana*

*Oceans: the new frontier* explores how human community insistently pushes the oceans' limits, seeking to exploit all of their varied resources—minerals, fisheries, fuels and genetic material. The ocean frontier is constantly being redefined by new discoveries, technologies, national strategies, and ecological imperatives. Increasing dependence of humanity on the resources of the oceans has blurred the boundaries between the mainland and oceans.

### Table of contents (selected)

- Negotiating our future with the oceans • An environment to discover: marine biodiversity assessments
- The oceans: an inexhaustible source of energy? • A globalized maritime economy: at what price? • The rise of the cyborg fish: on attempts to make fisheries manageable • Ocean governance: a fragmented regulatory framework • A regional approach to marine environmental protection: the “regional seas” experience
- Maritime shipping at the crossroads of economic and environmental challenges • On the curbing of illegal, unreported and unregulated fishing

2011 • 238 pages • Paperback • 190mm x 230mm • 9788179934029 • ₹ 655.00

New

## Policy Intervention Analysis

Environmental impact assessment

*Authors: Ritu Paliwal and Leena Srivastava*

Environmental impact assessment (EIA) is crucial for protecting the environment, especially in a country like India—with its dense and rapidly growing population, shrinking land mass, and an economy poised for rapid growth. Further, the role of properly formulated follow-up process would not only encourage compliance but also increase awareness among stakeholders.

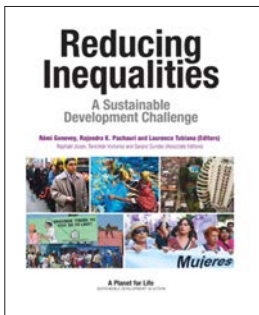
Policy intervention analysis evaluates the adequacy of post-project monitoring process in India and its effective implementation. It examines the effectiveness of the Indian EIA follow-up process, with a focus on the industrial sector.



### Table of contents

- EIA Process in India and its Constraints • Comparative Review of EIA • Haldia: A Case Study • Concept of EIA Follow-up and Practice in India • Environmental Quality Assessment • Enforcement Mechanisms • Questionnaire Analysis • Conclusion and Policy Implications • Enforcement mechanisms • Policy implications and conclusion

2014 • 228 pages • Hardback • 180mm x 240mm • 9788179934999 • ₹ 525.00



## Reducing Inequalities

A sustainable development challenge

*Authors: Rémi Genevey, Rajendra K Pachauri, and Laurence Tubiana*

The 2013 edition of *A Planet for Life* represents a unique international initiative grounded on conceptual and strategic thinking, and – most importantly – empirical experiments, conducted on five continents and touching on multiple realities. This unprecedented collection of works proposes a solid empirical approach, rather than an ideological one, to inform future debate.

The case studies collected in this volume demonstrate the complexity of the new systems required to accommodate each country's specific economic, political, and cultural realities. These systems combine technical, financial, legal, fiscal and organizational elements with a great deal of applied expertise, and must be articulated within a clear, well-understood, growth- and job-generating development strategy.

Inequality reduction does not occur by decree; neither does it automatically arise through economic growth, nor through policies that equalize incomes downward via blind taxing and spending. Inequality reduction involves a collaborative effort that must motivate all concerned parties, one that constitutes a genuine political and social innovation, and one that often runs counter to prevailing political and economic forces.

### Table of contents (selected)

- Why inequalities matter • The new prosperity of rentiers • Inequality, the emergence of a political idea in the 20th century • Inequalities and growth: a comprehensive ideology emerges in 1990–2010 • Economic equality as a condition for biodiversity conservation • Income inequalities, health inequalities and social progress • Inequalities within the urban half of the world

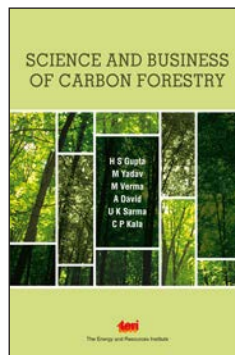
2013 • 272 pages • Paperback • 190mm x 230mm • 9788179935309 • ₹ 655.00

## Science and Business of Carbon Forestry

**New**

*Authors: H S Gupta, M Yadav, M Verma, A David, U K Sarma, and C P Kala*

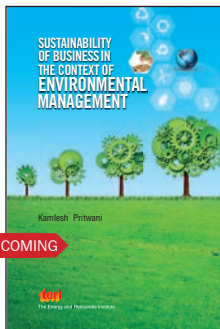
*Science and Business of Carbon Forestry* is a comprehensive guide on biodiversity, conservation and development, and regulation-related issues relevant to forests. It gives detailed guidance on the development, marketing, and financials related to projects in the forestry sector, with a focus on addressing problems related to climate change and forestry.



### Table of contents

- Implications of climate change • Global efforts and mechanisms to cope with climate change • Forestry and climate change • Voluntary mechanisms for forestry carbon projects • Formulation of forestry carbon projects for CDM or voluntary markets • Economics of forestry carbon projects • Financial aspects of forestry carbon projects • Marketing aspects of forestry carbon projects • Livelihood issues in forestry carbon projects • Policy and legal aspects of forestry carbon projects • Forestry carbon projects and biodiversity conservation • Adapting to climate change: role of forests and the forestry sector • Future opportunities for indian forestry sector: the post-2012 scenario

2014 • 400 pages • Hardback • 160mm x 240mm • 9788179934623 • ₹ 595.00


**FOR THCOMING**

## Sustainability of Business in the Context of Environmental Management

*Author: Kamlesh Pritwani*

This conceptual and analytical study is based on the philosophy of welfare for. This study covers the gap between traditional business theory of maximizing profits and modern business theory of thinking more about sustainability of society. The book compares the legal, financial, economic, industrial and social behavioral aspects. Out of these aspects, industrial aspect in view of 'Environmental management' is discussed in detail in this book. It has also explored the forces driving the changing relationship between business and society and corporate leadership reacting to environmental challenges. Finally, the book restates the concept of increasing

profitability through societal development.

### Table of contents

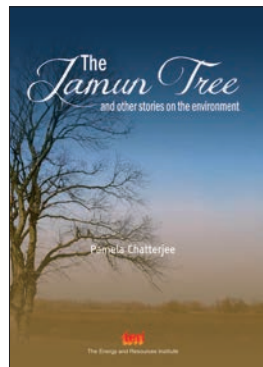
- Introduction • Literature Review • Research Methodology • Sustainable Business • Environmental Management
- Indian Context: A Case of Indian Companies • Results and Discussion: An Analysis • Recommendations
- Inferences

2015 • 250 pages • Hardback • 160mm x 240mm • 9788179933015 • ₹ 495.00

## The Jamun Tree

and other stories on the environment

*Author: Pamela Chatterjee*



*The Jamun Tree and other stories on the environment* provides an insider's view—from the villages, of work related to natural resource management. It describes the process by which farmers were motivated and involved to regard the work to be done as their own. It is a narration of the personal experience of people in those village areas where the author worked.

Starting the endeavour with just 95 farmers on a mere 18 hectares land, the programme has benefitted over 10,000 farmers by reclaiming over 4,600 hectares in just two years. Till date, with the intervention of the World Bank, a total of 6.25 lakh hectares has been reclaimed and the work is still on. The action taken found an echo with local people as it followed the need of the hour, right there in the field, with innovative techniques and new ideas.

### Table of contents

- People emerged from the shadows • Bangles for sale • The cascading water danced away • People move at their own pace

2012 • 204 pages • Paperback • 140mm x 215mm • 9788179934401 • ₹ 295.00

### Other Books on Environmental Science

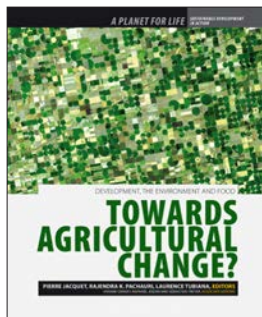
HealthGIS: managing health geospatially by N K Tripathi (ISBN: 9788179933251) Price: Rs.450

Mahatma Gandhi: an apostle of applied human ecology by T N Khoshoo (ISBN: 9788185419107) Price: Rs.200

Reducing Rural Poverty in Asia by Nurul Islam (ISBN: 9788179931257) Price: Rs.725

The Original Organics Cookbook: recipes for healthy living by Kuntal Kumar (ISBN: 9788179931554) Price: Rs.595





## Towards Agricultural Change?

Editors: *Pierre Jacquet, Rajendra K Pachauri, and Laurence Tubiana*

A Planet for Life 2012 focuses on agriculture and its relation to development, food and the environment. At the end of the 2000s, a consensus has emerged and points to the urgent need for massive investment in the agricultural sector, which is (once again) viewed as one of the prime engines for development and food security, as well as for poverty reduction. But what exactly does this consensus cover?

A Planet for Life called on many highly specialized authors from different countries and perspectives, and invites the reader to discover the sector in all its complexity, upstream and downstream of agricultural production.

At the crossroads of the challenges posed by development, food security and the environment, the transformation of the agricultural sector is at the heart of the global stakes of sustainable development.

### Table of contents (selected)

- Agriculture and food security: taking the measure of a global challenge
- Food crisis: a reshuffling of stakeholders
- Agriculture and transition in a globalized world
- The role of agriculture in African economic development: what do we disagree on?
- Land, peasants and migrants: the heart of China's development
- Global conditions for the future of agriculture in the "anthropocene"
- Can agricultural intensification save forested land? A review and case study in Indonesia
- Climate change and food security. A crucial test for humanity?
- Agricultural research: a global innovation system at the core of strategic choices
- An ethnography of cotton production and exchange in a Turkish village

2012 • 264 pages • Paperback • 190mm x 230mm • 9788179934432 • ₹ 655.00

## Wealth from Waste

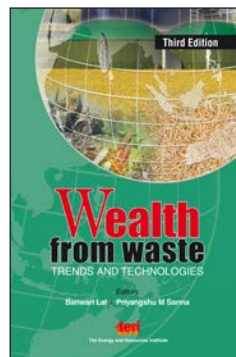
Trends and technologies (Third Edition)

Editors: *Banwari Lal and Priyangshu M Sarma*

This edition of *Wealth from Waste* takes a close look at the different avenues that consider waste a resource for recycling rather than contemplating its disposal. The book provides insights into the possible technological innovations that can be adopted, along with the current trends and opportunities available worldwide for converting waste into value-added resources.

### Table of contents

- Biofuels
- Bioethanol production from lignocellulosics: an overview
- Bioethanol: a status review on metabolic pathway modification of certain ethanologenic bacteria through genetic engineering
- Bioethanol production technologies: economics, environmental impact, and policy issues
- Bio-hydrogen: applications and future prospects
- Methanogenesis from agro-industrial residues: potential and prospects
- Biomass-gasifier-based decentralized energy solutions: technology, potential, problems, and research
- Industrial solid waste
- Coal-bed methane
- Bioreactors for wastewater treatment
- Ceramic membrane filters from waste fly ash and their applications
- Technological options for municipal solid waste management
- Technology trends and opportunities in cogeneration
- Environmental regulations for waste management in India



Reprint 2013 • 476 pages • Hardback • 160mm x 240mm • 9788179934241 • ₹ 750.00

## ORDER FORM

ISBN	Title	Year	Price (₹)	Qty
9788179934630	Afforestation in India: dimensions of evaluation	2013	445.00	
9788179933831	Arsenic Removal from Contaminated Groundwater	2012	995.00	
9788179930397	Benchmarking performance a manual on performance...	2004	350.00	
9788179934425	Biodiversity, Communities, and Climate Change	2013	895.00	
9788179935750	Building The Future We Want	2015	655.00	
9788179935675	Capabilities and Governance of Nanotechnology in the....	2013	500.00	
9788179935682	Carbon Capture, Storage, and Utilization	2014	950.00	
9788179935514	Carbon Sequestration by Coastal Floral....	2014	995.00	
9788179931165	Citizens at Work [Vol.3]	2007	300.00	
9788179934128	Climate Change and Disease Dynamics in India	2012	995.00	
9788185419183	CO <sup>2</sup> Mitigation and the Indian Transport Sector	1996	75.00	
9788179930168	Communicating in Style	2003	300.00	
9788179934036	Community-based Biodiversity Conservation in the...	2011	350.00	
9788179933886	Costing Adaptation: preparing for climate change in India	2011	995.00	
9788179932773	Dealing with Climate Change	2015	695.00	
9788179935729	Ecological Meltdown: impact of unchecked human growth..	2015	550.00	
9788179934951	Ensuring Sustainability in Forestry: certification of forests	2013	995.00	
9788179932339	Environment Best Practices: industry initiatives	2009	995.00	
9788179933589	Environment Chronicles: the best of TerraGreen	2015	295.00	
9788179935224	Environmental Chemistry: principles and recent advances	2015	495.00	
9788179932247	Environmental Concerns and Sustainable Development	2011	450.00	
9788179931844	Environmental Management	2014	550.00	
9788179934616	Environmental Pollution and Health	2015	225.00	
9788179935712	Environmental Studies: basic concepts, Second Edition	2015	325.00	
9788179935316	Forest and Livelihood	2015	795.00	
9788184000030	Ganga	2007	450.00	
9788179934098	Geoinformatics for Climate Change Studies	2013	995.00	
9788179933008	Handbook of Forest Certification	2015	995.00	
9788179933251	HealthGIS: managing health geospatially	2011	450.00	
9788179935705	Hydro-politics in GBM Basin: the case of Bangladesh-India..	2015	595.00	
9788179935569	Innovation for Sustainable Development	2014	655.00	
9788179934555	Introduction to Environmental Sciences	2015	595.00	
9788179932230	Mahatma Gandhi and the Environment	2015	250.00	
9788185419107	Mahatma Gandhi: an apostle of applied human ecology	2002	200.00	
9788179934029	Oceans: the new frontier	2011	655.00	
9788179934999	Policy Intervention Analysis	2014	525.00	
9788179935309	Reducing Inequalities: a sustainable development challenge	2013	655.00	
9788179931257	Reducing Rural Poverty in Asia	2006	725.00	
9788179934623	Science and Business of Carbon Forestry	2014	595.00	
9788179933015	Sustainability of Business in the Context of Environmental...	2015	495.00	
9788179934401	The Jamun Tree and other Stories on the Environment	2015	295.00	
9788179931554	The Original Organics Cookbook: recipes for healthy living	2008	595.00	
9788179934432	Towards Agricultural Change?	2012	655.00	
9788179934241	Wealth from Waste, Third Edition	2013	750.00	

*Prices are subject to change without prior notice.*

**The Energy and Resources Institute**

TERI Press

Darbari Seth Block, IHC Complex, Lodhi Road, New Delhi – 110 003, India

Tel.: 2468 2100 or 4150 4900 • Fax: 2468 2144 or 2468 2145 India +91 | Delhi (0)11

Email: [teripress@teri.res.in](mailto:teripress@teri.res.in) • Web: <http://bookstore.teri.res.in>